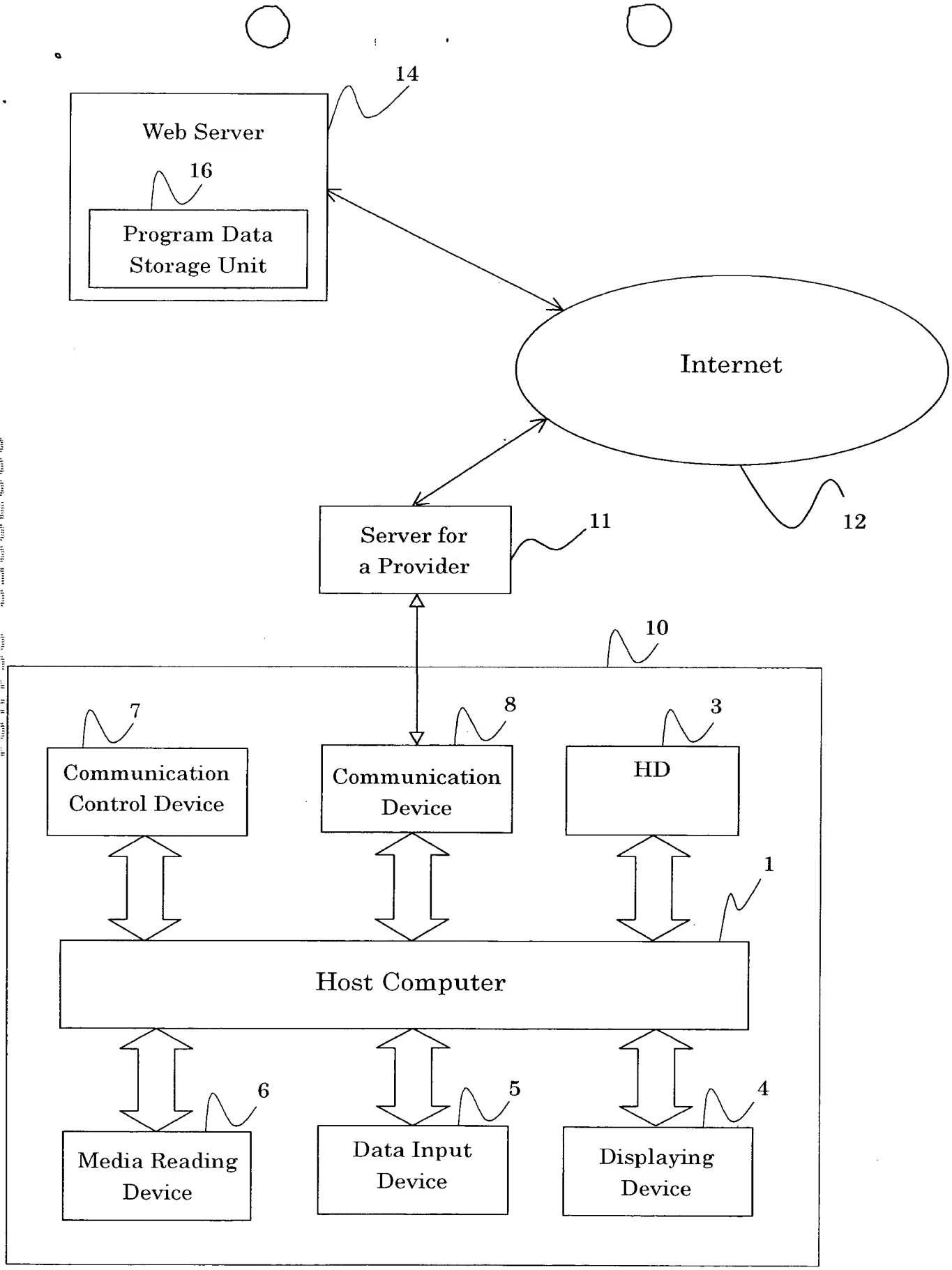

14
Web Server
16
Program Data Storage Unit
Internet
12
Server for a Provider
11
10
7
Communication Control Device
8
Communication Device
3
HD
1
Host Computer
6
Media Reading Device
5
Data Input Device
4
Displaying Device

Fig. 1

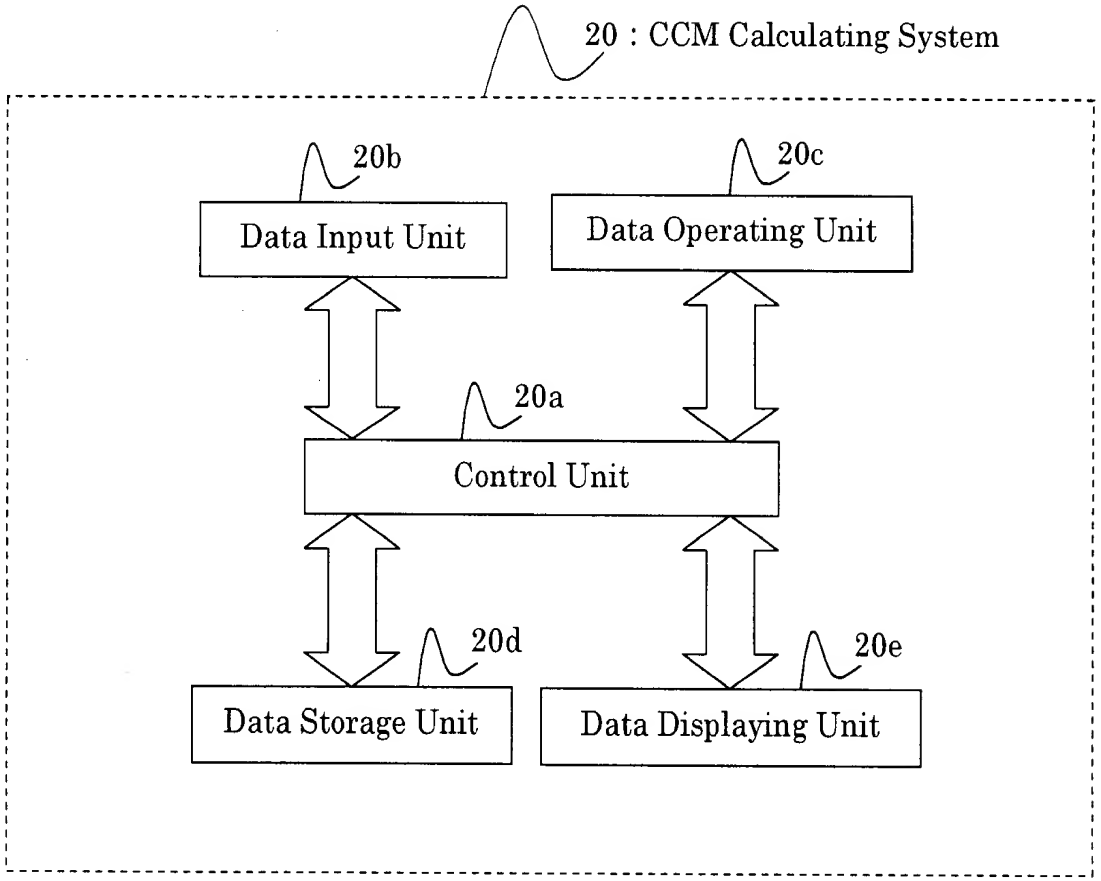

20 : CCM Calculating System
20b
Data Input Unit
20c
Data Operating Unit
20a
Control Unit
20d
Data Storage Unit
20e
Data Displaying Unit

Fig. 2

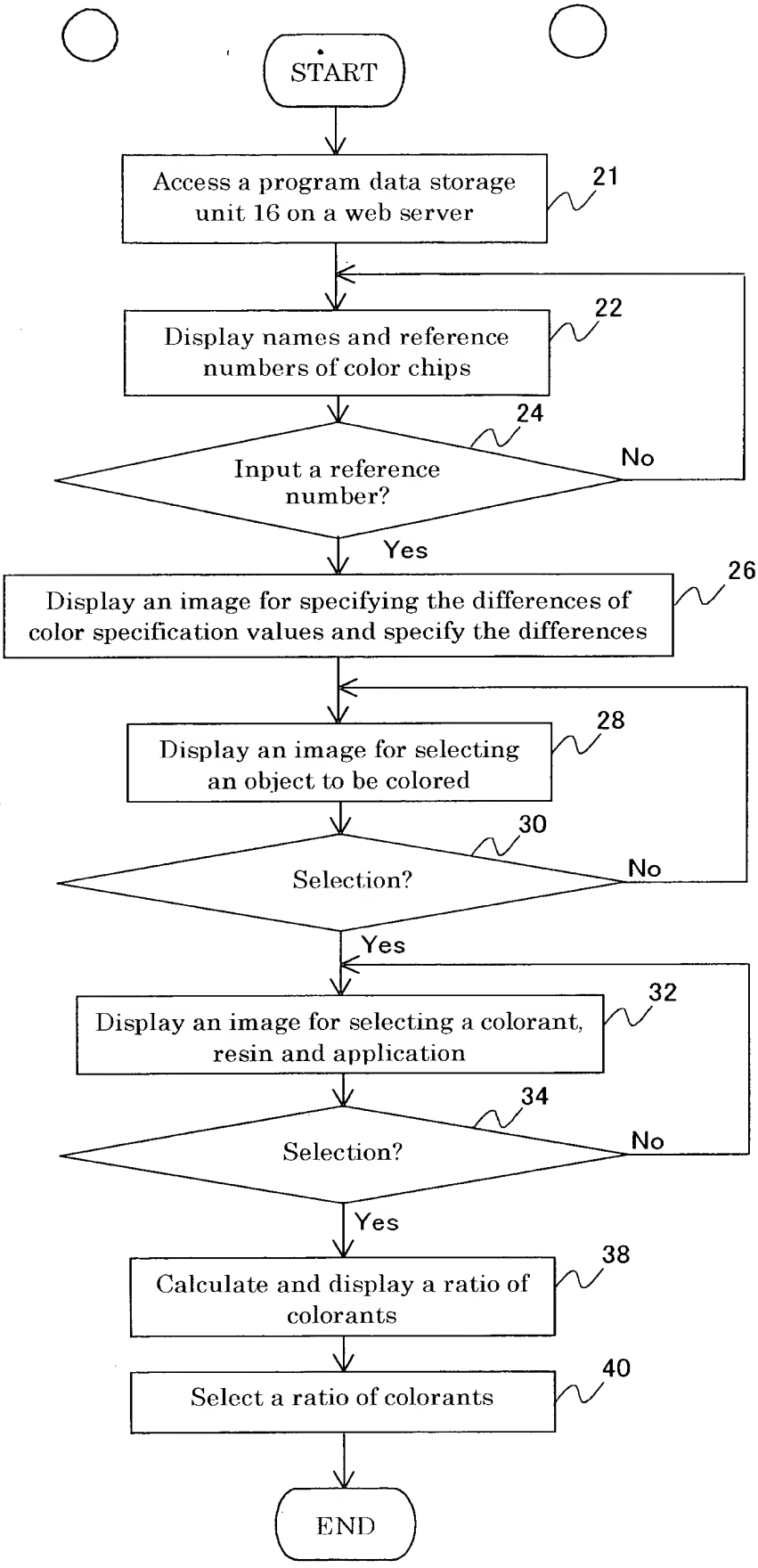

START
Access a program data storage unit 16 on a web server
21
Display names and reference numbers of color chips
22
Input a reference number?
24
No
Yes
Display an image for specifying the differences of color specification values and specify the differences
26
Display an image for selecting an object to be colored
28
Selection?
30
No
Yes
Display an image for selecting a colorant, resin and application
32
Selection?
34
No
Yes
Calculate and display a ratio of colorants
38
Select a ratio of colorants
40
END

Fig. 3

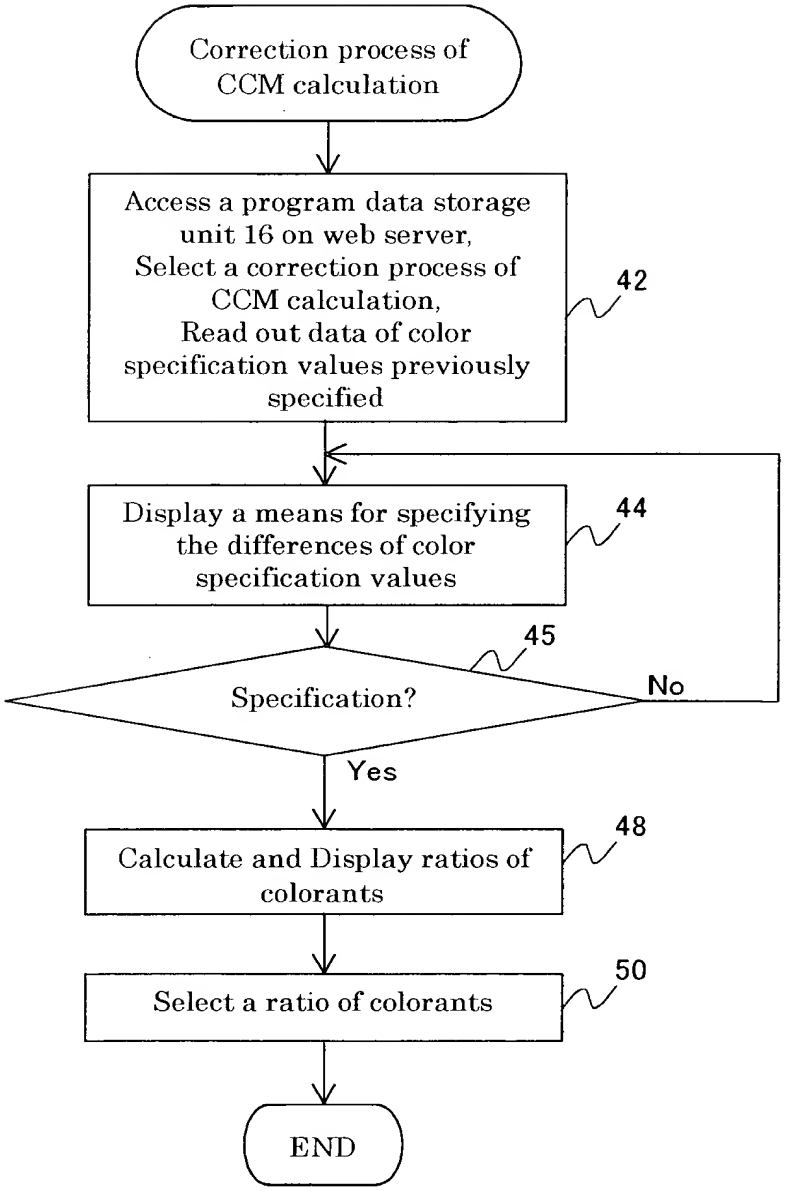
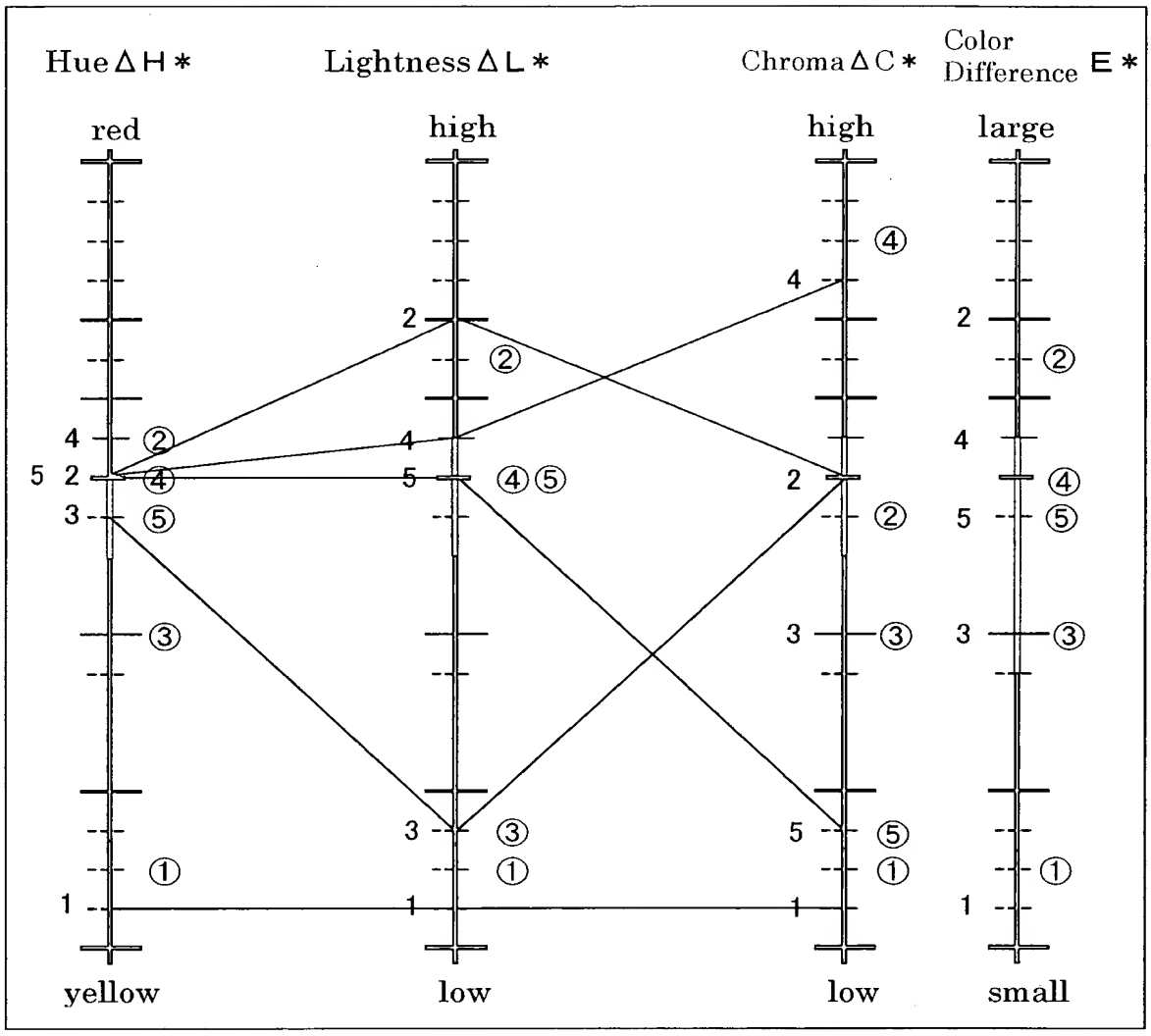

Correction process of CCM calculation
Access a program data storage unit 16 on web server, Select a correction process of CCM calculation, Read out data of color specification values previously specified
42
Display a means for specifying the differences of color specification values
44
45
Specification?
No
Yes
Calculate and Display ratios of colorants
48
Select a ratio of colorants
50
END

Fig.4


Hue ΔH*
Lightness ΔL*
Chroma ΔC*
Color Difference E*
red
high
high
large
yellow
low
low
small

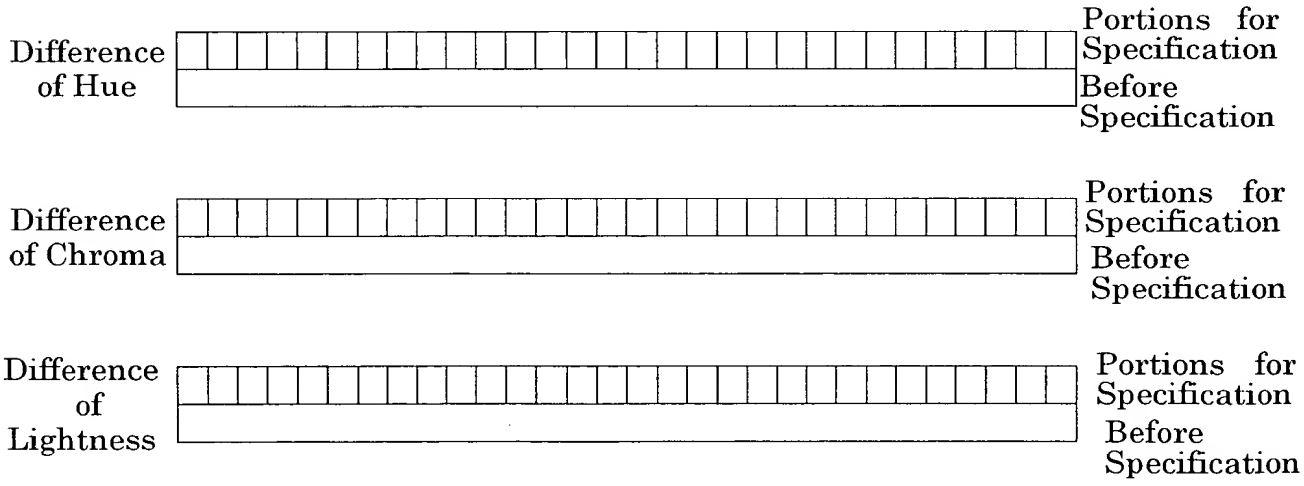

Difference of Hue
Portions for Specification
Before Specification
Difference of Chroma
Portions for Specification
Before Specification
Difference of Lightness
Portions for Specification
Before Specification

Fig. 5

No.	color1	color 2	color 3	color 4 color 5	ΔE*	MI(C:A)	ΔH*	ΔC*
1	P-4050	P-4710	P-4490	P-4681	0.02	2.70	1.39	-2.31
	0.2266	0.0041	0.5835	0.1858			+---*	*-----+
2	P-4050	P-4710	P-4477	P-4510	0.00	3.08	0.20	3.07
	0.8668	0.0211	0.0926	0.0194			+*	+------*
3	P-4050	P-4710	P-4446	P-4510	0.01	2.99	0.31	2.97
	0.9242	0.0213	0.0340	0.0204			+-*	+------*
4	P-4050	P-4710	P-4477	P-4514	0.01	2.95	0.18	2.95
	0.8642	0.0209	0.0930	0.0219			+*	+------*
5	P-4050	P-4710	P-4485	P-4510	0.00	2.93	0.47	2.89
	0.8581	0.0194	0.1024	0.0201			+-*	+------*
6	P-4050	P-4710	P-4490	P-4660	0.01	2.49	1.77	-1.75
	0.2010	0.0020	0.6463	0.1508			+----*	*----+
7	P-4050	P-4710	P-4485	EP-4514	0.00	2.80	0.45	2.77
	0.8554	0.0192	0.1028	0.0227			+-*	+------*
8	P-4050	P-4710	P-4410	P-4681	0.01	2.25	1.28	-1.85
	0.6853	0.0112	0.0467	0.2568			+--*	*----+
							(G)<--+-->(GY)	(small)<--+-->(large)

Fig. 6

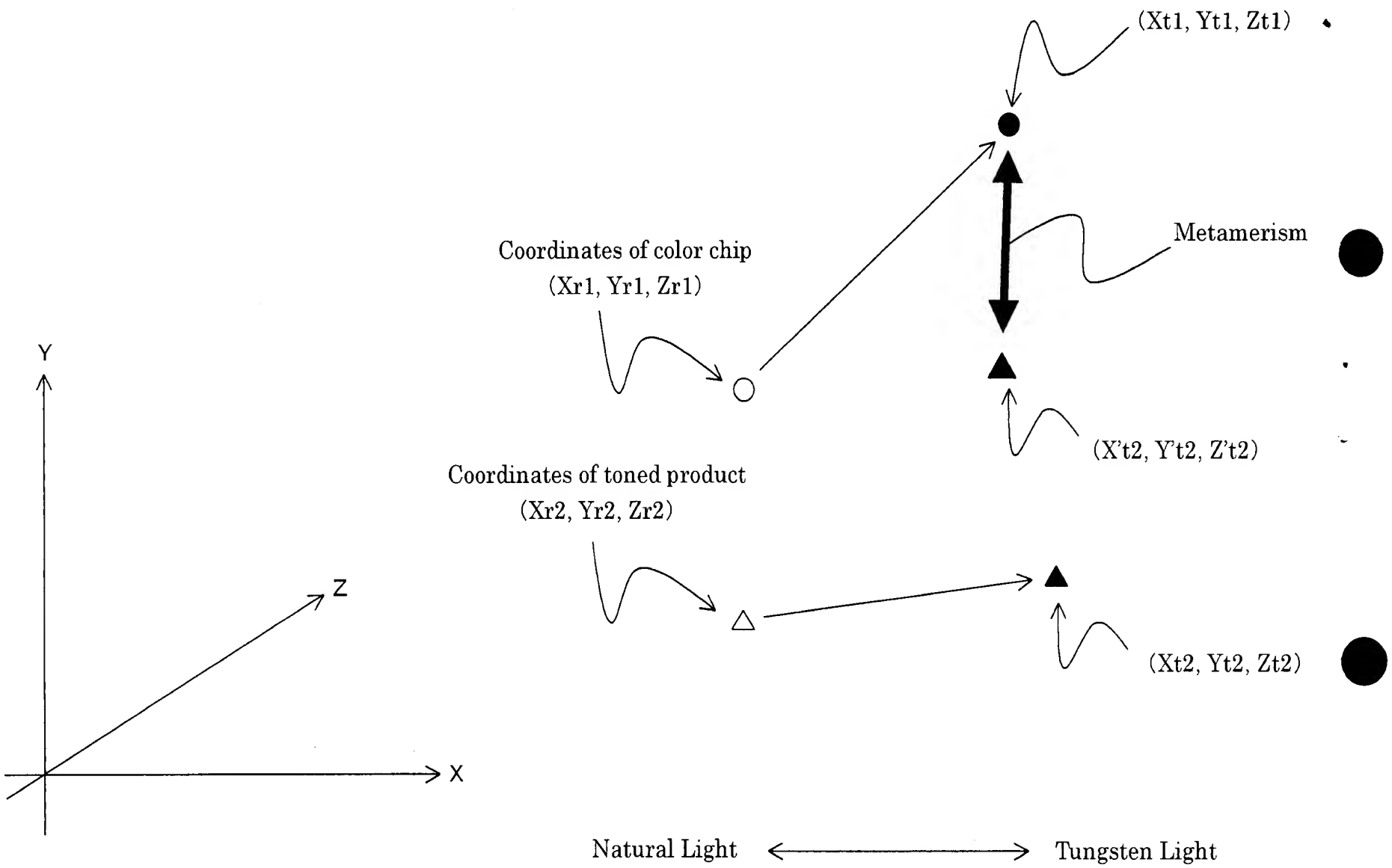

(Xt1, Yt1, Zt1)
Metamerism
Coordinates of color chip
(Xr1, Yr1, Zr1)
(X't2, Y't2, Z't2)
Coordinates of toned product
(Xr2, Yr2, Zr2)
(Xt2, Yt2, Zt2)
Y
Z
X
Natural Light
Tungsten Light

Fig. 7

Fig. 8

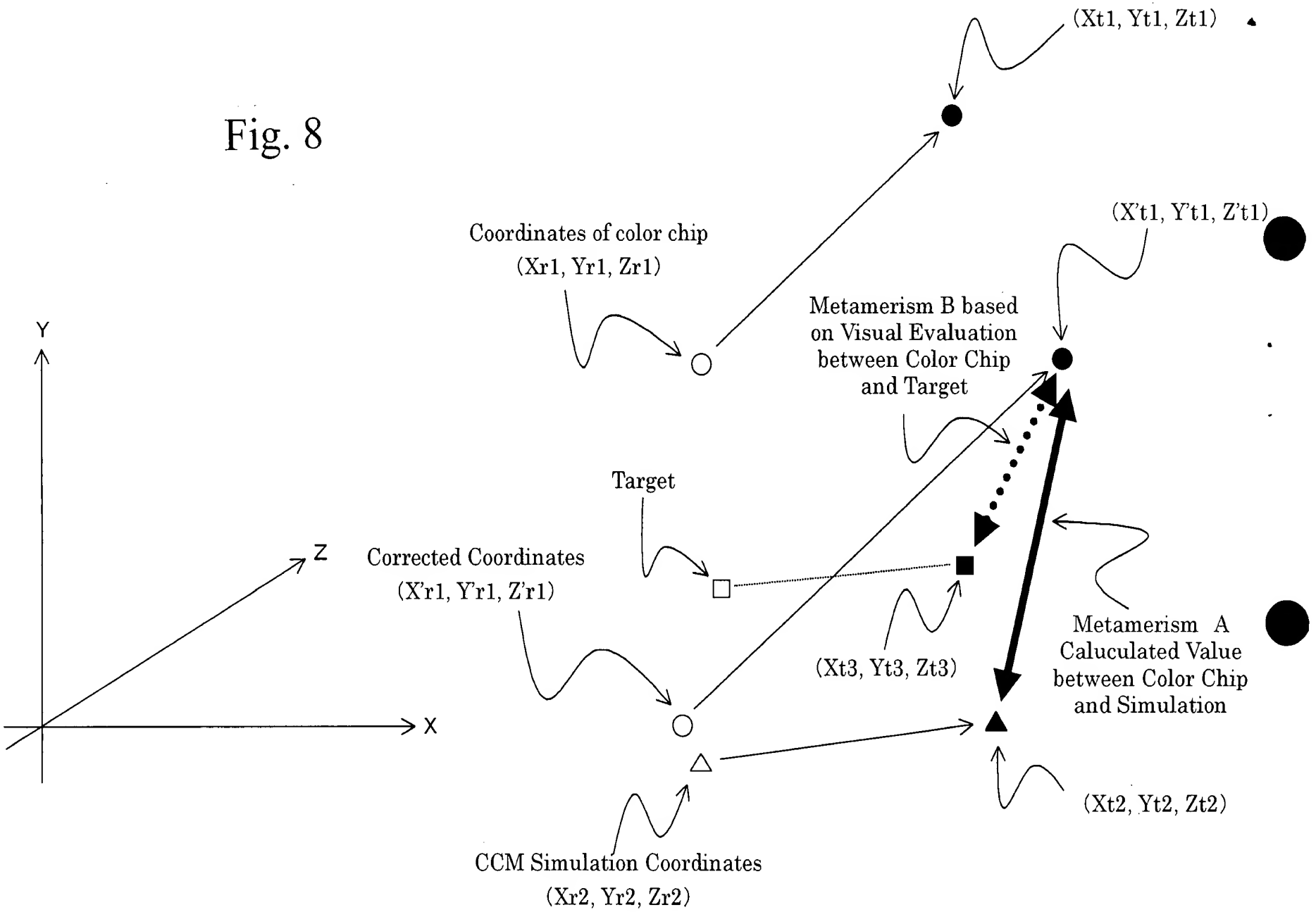
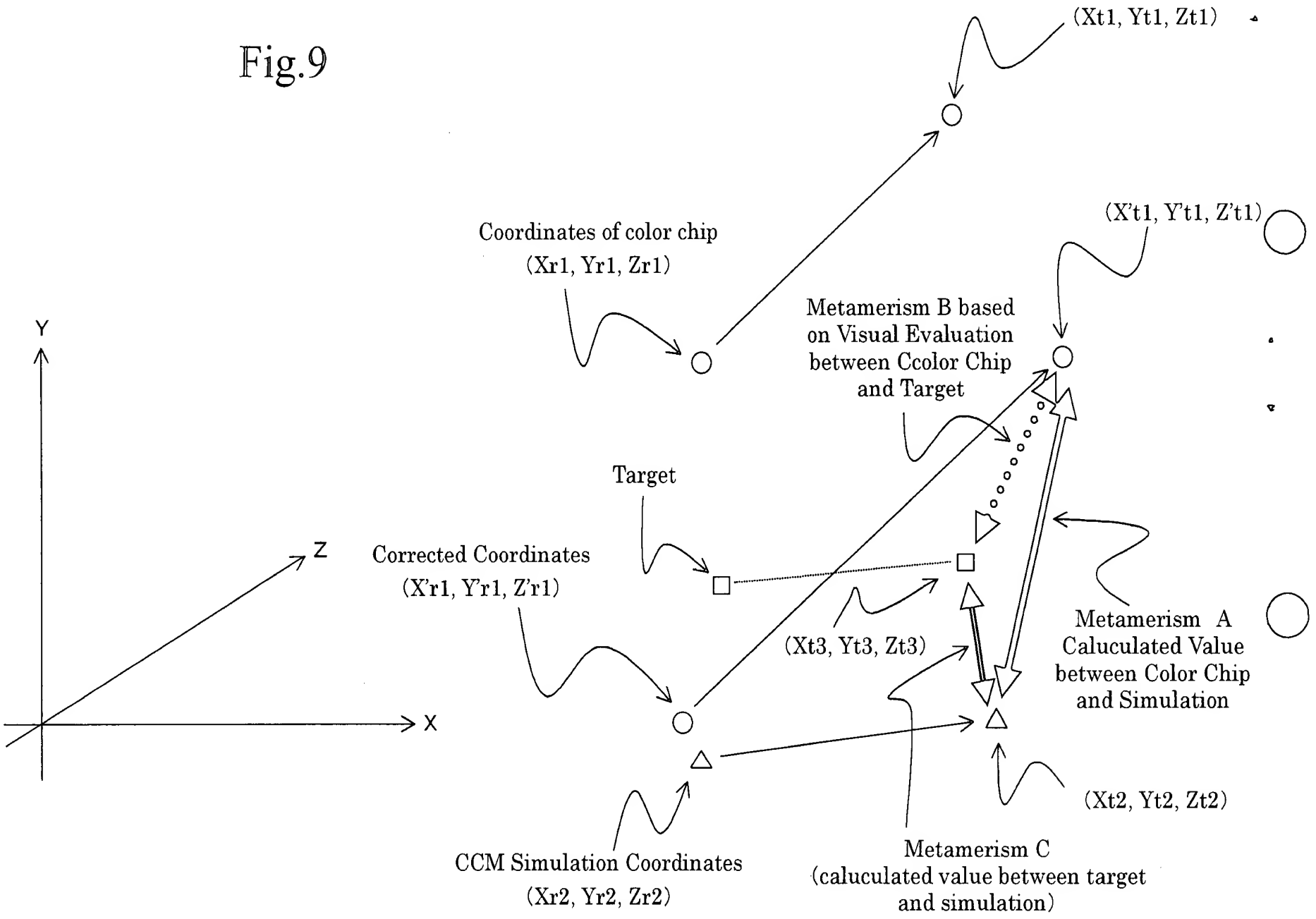

(Xt1, Yt1, Zt1)
(X't1, Y't1, Z't1)
Coordinates of color chip
(Xr1, Yr1, Zr1)
Metamerism B based on Visual Evaluation between Color Chip and Target
Target
Corrected Coordinates
(X'r1, Y'r1, Z'r1)
(Xt3, Yt3, Zt3)
Metamerism A Caluculated Value between Color Chip and Simulation
(Xt2, Yt2, Zt2)
CCM Simulation Coordinates
(Xr2, Yr2, Zr2)
Y
Z
X

Fig.9


(Xt1, Yt1, Zt1)
Coordinates of color chip
(Xr1, Yr1, Zr1)
(X't1, Y't1, Z't1)
Metamerism B based
on Visual Evaluation
between Ccolor Chip
and Target
Target
Y
Z
X
Corrected Coordinates
(X'r1, Y'r1, Z'r1)
(Xt3, Yt3, Zt3)
Metamerism A
Caluculated Value
between Color Chip
and Simulation
(Xt2, Yt2, Zt2)
CCM Simulation Coordinates
(Xr2, Yr2, Zr2)
Metamerism C
(caluculated value between target
and simulation)

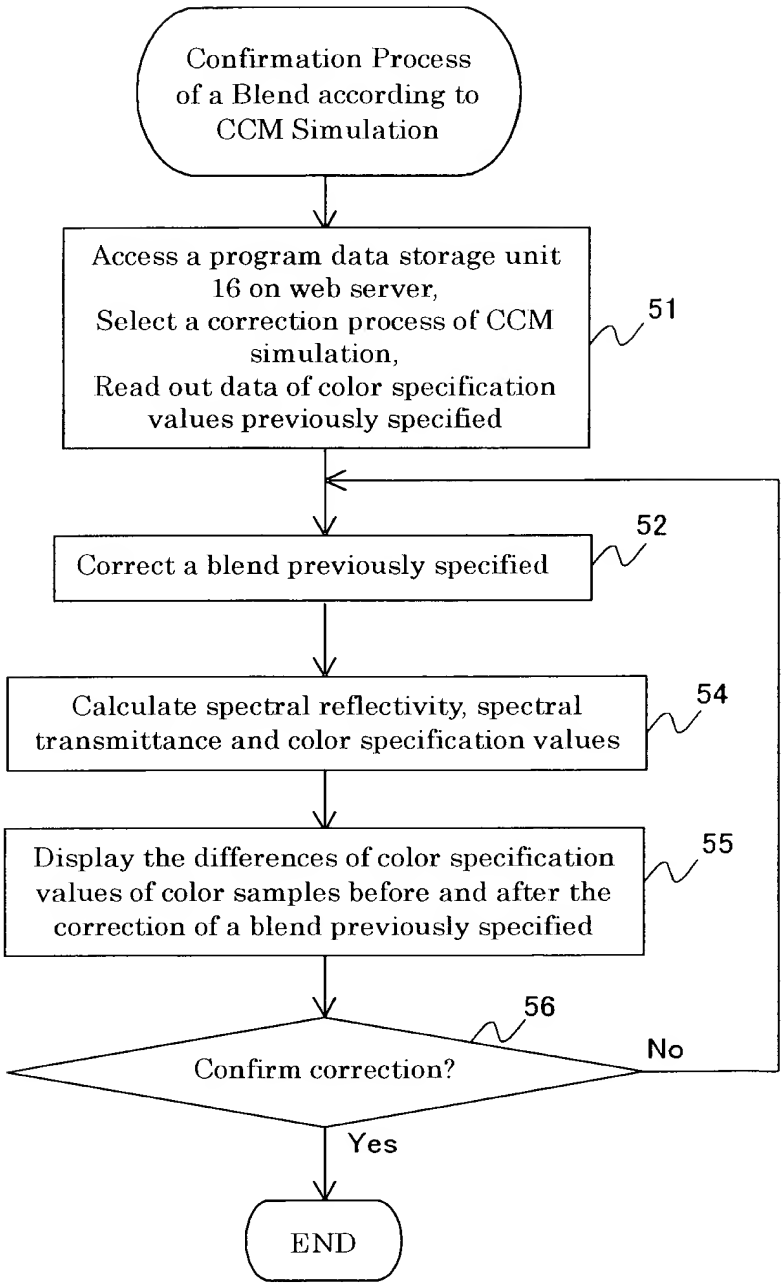

Confirmation Process of a Blend according to CCM Simulation
Access a program data storage unit 16 on web server, Select a correction process of CCM simulation, Read out data of color specification values previously specified
51
Correct a blend previously specified
52
Calculate spectral reflectivity, spectral transmittance and color specification values
54
Display the differences of color specification values of color samples before and after the correction of a blend previously specified
55
Confirm correction?
56
No
Yes
END

Fig. 10